

OUTPUT PENTODE

N17

JULY, 1956

DESCRIPTION

Type N17 is a miniature output pentode fitted with a centre-tapped filament for series or parallel operation. The valve is interchangeable with the American type 3S4.

RATINGS

	Series	Parallel	
Filament Voltage	2·8	1·4	volts
Filament Current	0·05	0·10	approx. amp
Anode Voltage	90	90	max. volts
Screen Voltage	67·5	67·5	max. volts
Cathode Current, no load†	4·5	4·5	max. mA
Cathode Current, full load†	5·5	5·5	max. mA
Mutual Conductance*	1·425	1·575	mA/V

* measured at $Va = 90$; $Vg_2 = 67{\cdot}5$; $Vg_1 = -7$.

† for each 1·4v. filament section.

Capacitances (taken on valve with external screening) :

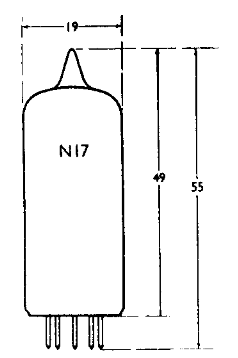
Control Grid to all other electrodes	5·2	approx. pF
Anode to all other electrodes	4·6	,, ,,
Anode to Control Grid	0·35	,, ,,

OPERATING CONDITIONS

Class A Amplifier

	Series		Parallel		
Anode Voltage	90	67·5	90	67·5	volts
Anode Current, no load	6·1	6·0	7·4	7·2	mA
Screen Voltage	67·5	67·5	67·5	67·5	volts
Screen Current, no load	1·1	1·2	1·4	1·5	mA
Control Grid Voltage	−7	−7	−7	−7	volts
Input Signal Voltage	7	7	7	7	peak volts
Anode Load Resistance	8,000	5,000	8,000	5,000	ohms
Distortion	13	12	12	10	%
Power Output	235	160	270	180	mW

DIMENSIONS



All dimensions are in mm and are the maximum except where otherwise stated.

BASE

B7G

Pin 1 : Filament (−series)
2 : Anode
3 : Control Grid, g_1
4 : Screen Grid, g_2
5 : Filament (−parallel)
6 : Anode
7 : Filament (+)

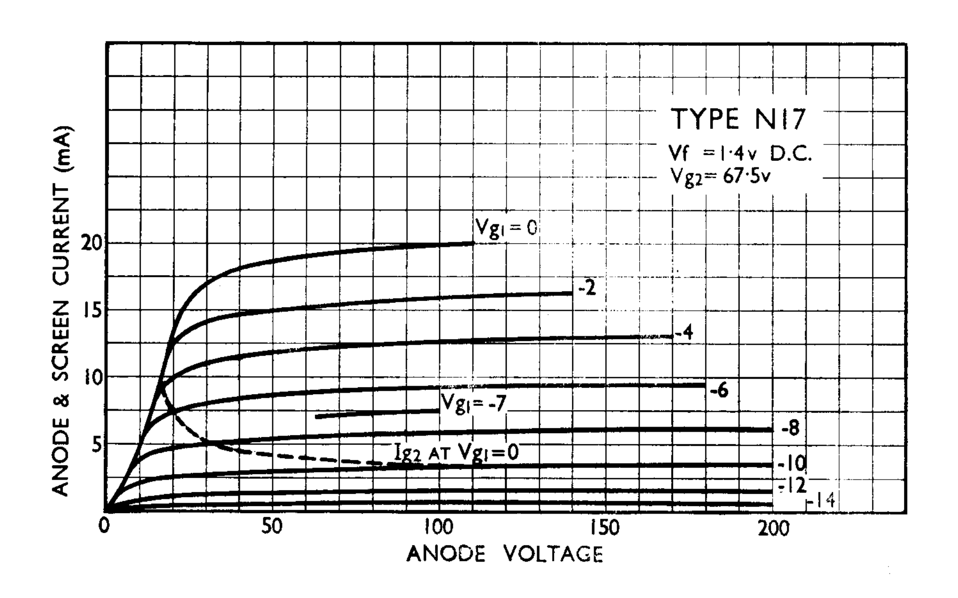
View looking on underside of base

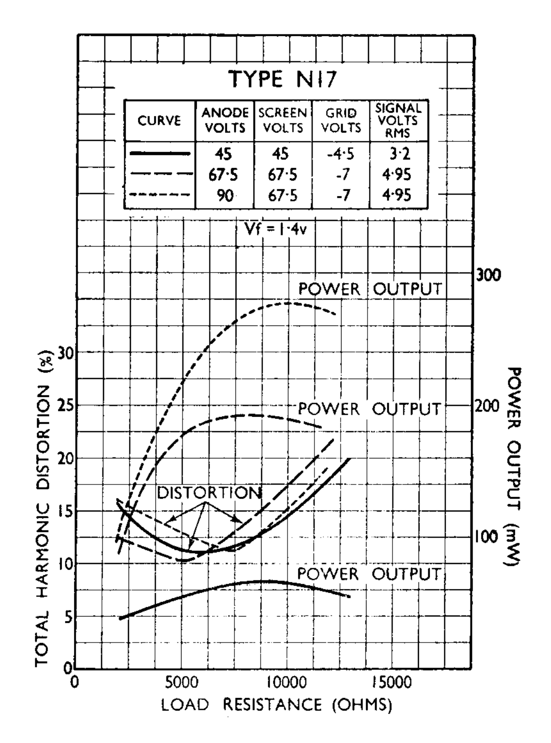
For parallel operation use pins 1 and 7 strapped, and 5.
For series operation use pins 1 and 7 only.

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CHARACTERISTIC CURVES OF AVERAGE VALVE.

Printed in England. C.